A QUAKER HOUGHTON COMPANY

Innovation and Experience at Work

Product Data Sheet

RheoGel 1863F

RheoGel 1863F is a medium viscosity, synthetic hydrocarbon grease thickened with lithium soap and fortified with PTFE. It is intended for wide temperature lubrication of bearings, sliding surfaces and gear systems and is compatible with most ester-vulnerable plastics and polymers. The PTFE provides improved lubricity and low temperature torque.

BASE OIL CHARACTERISTICS			TYPICAL VALUE *
Type			Synthetic Hydrocarbon
Temperature Service Range (°C)			-50 to 125
GREASE CHARACTERISTICS			**TYPICAL VALUE ***
Thickener			Lithium
Color			Off White
Appearance			Smooth
NLGI Grade			2
Penetration (ASTM D217 / DIN 51804-T1)	Unworked		265-295
	Worked	60X	265-295
	Worked 60X, Undisturbed 6h at -40°C		190
Dropping Point (°C) (ISO 2176)			193 min.
Oil Separation (ASTM D6184)	24h at 100°C		5% max.
Evaporation (CTM-1)	24h at 100°C		1% max.
Copper Corrosion (ASTM D4048/DIN 51808)	24h at 100°C		1b max.
	1h at 150°C		1b
Low Temperature Torque (ASTM D1478)	-40°C	Start	678 g·cm
		Running	118 g·cm
Four Ball Wear (ASTM D2266 / DIN 51350-T5)	60 min 1200 RPM 75°C 40kg$_f$		0.45mm
	Coefficient of Friction (dynamic, steel on steel)		0.058

*The values stated in this Product Data Sheet are Typical Values and ***must not*** be used as QC Specifications for this product. Please contact the Global Technical Services department for QC specifications for this product.

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